



**Abhishek Kumar Thakur**  
PG (II Year I Semester)  
M.Tech. Water Resources Development  
Contact No: 7583057930  
Email: abhishek\_kthakur@wr.iitr.ac.in  
Registration No: 22548002/2024

Indian Institute of  
Technology  
Roorkee



**VERIFIED**

## Area of Interest

Civil Engineering, Remote Sensing and Geospatial Techniques, Structural Engineering, Hydraulic Engineering, Design of Water Resources Structures, Water supply chain and disposal

## Education

Year	Degree/Examination	Institution/Board	CGPA/ Percentage
2023	M.Tech. 1st Year	Indian Institute of Technology, Roorkee	8.550
2019	Graduate (UG)	Bhilai Institute of Technology Durg (CSVТУ)	76.57 %
2015	Intermediate (Class XII)	Holy Cross Convent Sr. sec School (CBSE)	86.67 %
2013	Matriculate (Class X)	Carmel Convent School (ICSE)	78.83 %

## Internships

**Trainee** | Public Works Department Ambikapur

June 2017

- Designing ,Construction ,Estimation and maintenance of Buildings
- Analysis of the designed components through Softwares like Revit and Staad pro
- Site surveys, inspection, and identification of possible challenges during construction.
- Reports on project progress

**Trainee** | Public Works Department Durg

June 2018 - July 2018

- Designing of Rigid Pavements, Bridges and Substructures
- Compliance with civil engineering concepts in designing rigid pavements, joints, and curing methods.
- Culvert and bridge foundation designs for waterway

## Projects

**Assessment of Reservoir Sedimentation Using Remote Sensing technique** | Indian Institute of Technology Roorkee

January 2023 - April 2023

- Determination of change in storage of reservoir and determining sediment accumulation rate with the help of highly processed imagery.

**Analysis of Ungauged Reservoir Using Remote sensing** | Indian Institute Of Technology Roorkee

July 2023 - Present

- Hydrological modelling of an ungauged reservoir to assess its capacity.
- Analysis of change in storage of reservoir capacity over space and time .

**Design of a Storage Hydro Power Plant** | Indian Institute Of Technology Roorkee

January 2023 - Present

- Hydrological designing, which involves spillways, capacity area elevation curves
- Hydromechanical components designs like the design of valves, turbines, draft tube, and their viability
- Economic Analysis of the Design.
- Power potential studies of the HPP

**Treatment and investigation of waste water using natural coagulants like Banana peel and lemon peel** | Bhilai

Institute of Technology Durg

January 2019 - April 2019

- In order to replace the chemical load on the environment due to sludge produced by alum, the dosage of natural coagulants is analyzed.

## Awards / Scholarships / Academic Achievements

- AIR 630 in GATE Environmental Studies
- AIR 2398 in GATE Civil engineering 2021
- AIR 3611 with a score of 513 in GATE 2023 Civil engineering
- AIR 3770 in GATE CE 2020
- AIR 4614 with a score of 503 in GATE 2022 Civil engineering
- AIR 14527 in GATE CE 2019

## Skills

Computer languages	C , C++ , Logo, Blue Java, Python, Machine learning
Software Packages	BIM360 ,Microsoft Office Suite,AUTOCAD, STAADPRO, REVIT, ARC GIS , ERDAS, MATLAB, HECRAS, GOOGLE EARTH ENGINE
Additional Courses	Google Data Analytics foundations
Languages Known	Hindi (SRW), English(SRW)

## Positions of Responsibility & Extra Curriculars

**Designer** | Water Resources development and management IIT ROORKEE

January 2023 - May 2023

- Design of Hydro Power plant
- Hydrological designing, which involves spillways, capacity area elevation curves
- Hydromechanical components designs like the design of valves, turbines, draft tube, and their viability
- Economic Analysis of the Design.
- Power potential studies of the HPP

**Participation** | Varanasi Smart City Ltd.

July 2023 - August 2023

- Participated in the Idea/Design Contest for One-step innovative solution for Cleaning and Filtering the still water of Pishach Mochan Kund in Varanasi.

**Subject Matter Expert** | Expert Buddy

June 2022 - December 2022

- Worked as a Civil engineering Expert in free-lancing mode.
- Deal with Concepts of Strength of materials, design of RCC Steel structures, fluid mechanics, Hydrology, and all subjects

**Participation** | IEEE Conference Bhilai Institute of technology Durg

March 2018

- Expert lecture on how Google Open Source is connecting people using Machine learning and Artificial Intelligence

**Participation** | Bhilai Institute of technology Durg

February 2019

- POP SI LINK is an open house competition for designing a Bridge structure using Ice cream sticks and to test its Load-carrying capacity.

**Participation** | Bhilai Institute of technology Durg

March 2017

- National Conference on Research Challenges in Civil Engineering for National Development

**Representing and Debating as a Politician** | Bhilai Institute of technology Durg

March 2023 - Present

- Vichaar Vimarsh is a Student parliamentary Event

**Member Organising Committee** | Bhilai Institute of technology Durg

February 2018

- Organised Cultural Fest OJAS

---

## References

**Prof. Deepak Khare**

Professor

Indian Institute of Technology Roorkee

deepak.khare@wr.iitr.ac.in

9412990808